

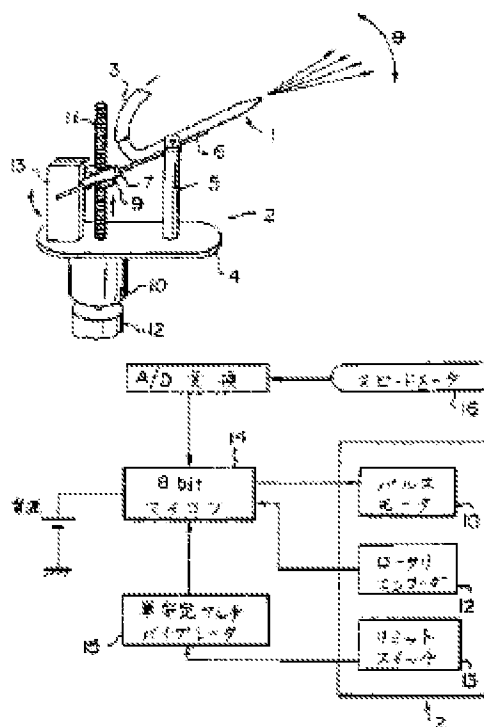
# WASHER DEVICE FOR AUTOMOBILE

**Publication number:** JP62175242  
**Publication date:** 1987-07-31  
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**Applicant:** MAZDA MOTOR  
**Classification:**  
 - international: **B60S1/52; B60S1/46;** (IPC1-7): B60S1/52  
 - european: B60S1/52B3  
**Application number:** JP19860016071 19860128  
**Priority number(s):** JP19860016071 19860128

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## Abstract of JP62175242

**PURPOSE:** To enhance the wiping efficiency of a wiper, by changing the jetting angle of washing liquid from a washer nozzle in accordance with the speed of a vehicle so that the angle is greater during low speed running than during high speed running, thereby the washing liquid may be distributed over a suitable area irrespective variations in the vehicle speed. **CONSTITUTION:** When a manipulation switch for a washer nozzle 1 is turned on, a microcomputer 14 actuates a pulse motor 10 so that a nozzle is turned down until a limit switch is turned on, and is therefore set at a home position. Then the microcomputer 14 determines an optimum angle in accordance with a vehicle speed delivered from a speed meter 16, and delivers a predetermined pulse signal to operate the pulse motor 10. Then, a nut 9 threadedly engaged with the rotary shaft 11 of the pulse motor 10 is vertically moved so that the nozzle 1 is swung about a bearing section at the top end of a support column 5 to change the washing liquid jetting angle which is detected by a rotary encoder 12 to be fed back to the microcomputer 14.



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